

B&R - X20 System

X20CP3687X

Programmable Logic Controller CPU

Product identity and technical data

Product family	X20 System
Product type	Programmable logic controller CPU
Processor	Intel Atom E3940, 1.6 GHz, 4-core, with integrated I/O processor
Working memory	2 GB LPDDR4 SDRAM
SRAM	1 MB SRAM
Remanent variables	1 MB maximum
Application memory	2 GB eMMC flash memory plus removable CompactFlash
Controller redundancy	Supported
Shortest task class cycle	100 microseconds
Typical instruction cycle	0.0010 microseconds
Ethernet	1 x 10/100/1000BASE-T, shielded RJ45
POWERLINK	POWERLINK V2, 100 Mbit/s, managing or controlled node, PRC support

Documented role

X20CP3687X is a B&R; X20 System programmable logic controller CPU for industrial automation control.

The fanless controller provides Intel Atom E3940, 1.6 GHz, 4-core, with integrated I/O processor, 2 GB LPDDR4 SDRAM, integrated Ethernet, POWERLINK, USB, RS232, X2X Link / X2X+ master, and removable CompactFlash application storage.

Selection and installation checks

- Uses Intel Atom E3940, 1.6 GHz, 4-core, with integrated I/O processor
- Provides 2 GB LPDDR4 SDRAM, 1 x 10/100/1000BASE-T, shielded RJ45, and POWERLINK V2, 100 Mbit/s, managing or controlled node, PRC support
- Runs fanless with a shortest task class cycle of 100 microseconds

X20CP3687X requires separately ordered CompactFlash application memory; verify the material number, runtime and project, interface modules, network roles, 24 VDC power segmentation, USB loads, mounting orientation, and validated backup before replacement.